

CLAIMS

1. An apparatus comprising:

an input configured to receive one or more input signals;

a noise cancellation circuit configured to generate a  
first processed audio signal having reduced noise in response to  
said input signals;

an audio circuit configured to generate a second audio  
signal from a digital source; and

a mixing circuit configured to mix said processed audio  
signal and said second audio signals to generate an output signal.

2. The apparatus according to claim 1, wherein said  
apparatus comprises a digital versatile disk (DVD) system.

3. The apparatus according to claim 1, wherein said  
noise cancellation circuit is further configured to perform one or  
more types of noise cancellation.

4. The apparatus according to claim 3, wherein said  
types of noise reduction are selected from the group consisting of

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(i) noise detect, (ii) noise suppress, (iii) anti-noise and (iv) other appropriate types of noise cancellation.

5. The apparatus according to claim 3, wherein each of said one or more types of noise cancellation are optionally enabled.

6. The apparatus according to claim 5, wherein each of said one or more types of noise cancellation operate at different dB levels.

7. The apparatus according to claim 5, wherein each of said one or more types of noise cancellation are programmable.

8. The apparatus according to claim 1, wherein said apparatus is configured to support a DVD system and perform key control, voice cancellation, and surround with a measured amount of stationary noise mixed from the one or more inputs signals.

9. The apparatus according to claim 1, wherein said apparatus is configured to support a DVD bitstream feed and perform

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noise detect, noise suppress and anti-noise, each enabled and at different programmable dB levels.

10. The apparatus according to claim 1, wherein said apparatus is configured to support a DVD system and provide stationary noise detect and suppress to enable recorded sound samples to be used for sound detect.

11. The apparatus according to claim 1, wherein said noise cancellation circuit is further configured to provide dynamic anti-noise processing to allow a delay from said input to be processed with said noise cancellation and be synchronized with said second audio signal.

12. The apparatus according to claim 11, wherein said dynamic anti-noise processing compensates for a fixed latency based on an introduced delay.

13. The apparatus according to claim 1, wherein said apparatus is configured support a DVD system and provide programmable detect, suppress and anti-noise.

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14. The apparatus according to claim 13, wherein said programmable detect is configured on an audio band basis.

15. The apparatus according to claim 1, wherein said noise cancellation circuit is configured to suppress audio with said one or more input signals.

16. The apparatus according to claim 1, wherein said apparatus is configured to support a DVD system with browser VoIP, Internet audio and other browser based audio.

17. The apparatus according to claim 1, wherein said apparatus is configured to perform one or more operations selected from the group consisting of (i) allowing a user to record sound samples, (ii) monitoring for said sound samples and (iii) notifying said user.

18. The apparatus according to claim 1, wherein said apparatus comprises a DVD system and provides multiplexed microphone input with a DVD bitstream, feeds a stationary noise detect function, feeds a stationary noise suppress function, feeds

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- 5 a sound detect function, compares the feed audio to recorded sound samples with an anti-noise function, mixes said audio on an output, and maintains audio/video synchronization.

19. An apparatus comprising:

means for receiving one or more external signals;

means for providing noise reduction on said one or more external signals to generate a processed audio signal;

means for generating an internal audio signal from a digital source; and

means for mixing said internal audio signal and said processed audio signal to generate an output signal.

20. A method for providing noise cancellation of an external source in a DVD system, comprising the steps of:

(A) receiving one or more external signals;

5 (B) performing one or more noise cancellation functions on said external signals to generate a processed audio signal;

(C) generating an internal audio signal from a digital source; and

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(D) mixing said internal audio signal and said processed audio signal to generate an output signal.